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Dec 4, 2001

DOCUMENT-IDENTIFIER: US 6326357 B1

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TITLE: Bacterial cell complex composition and method of use

Brief Summary Text (4):

Preparations of biological and chemical origin including, but not limited to, preparations from bacteria, viruses, yeast, and plants have been used to stimulate or to inhibit responsive cells in an animal, including a human. Among bacteria, preparations of cell wall from, but not limited to, Mycobacterium species have been used to treat diseases including, but not limited to, skin diseases U.S. Pat. No. 4,340,586), bacterial infections (U.S. Pat. No. 3,172,815), viral infections (U.S. Pat. No. 4,744,984) and cancers (U.S. Pat. No. 4,503,048). Mycobacterial cell wall extracts are composed primarily of peptidoglycan and glycolipid (Chin et al. Journal of Urology 156:1189-1193, 1996) and contain N-acetylmuramyl-L-alanyl-D-isoglutamine (muramyl dipeptide) and mycolic acid derivatives. Both muramyl dipeptide and mycolic acid derivatives stimulate the immune system by activation of macrophage and monocyte mediated reactions (Mallick et al. Comparative Immunology and Microbiology of Infectious Diseases 8:55-63, 1985; Teware et al. Veterinary Parasitology 62:223-230, 1996). As used herein, the immune system is defined to include macrophages, monocytes, lymphocytes and leukocytes. These reactions, mediated by the immune system, induce cytolysis, which is the complete or partial destruction of a cell. However, the therapeutic benefits obtained using such cell wall extracts to treat cancer cells are variable and inconsistent, and appear to depend on the method by which the preparation is prepared and delivered, and on the stability of the preparation.

US Reference Patent Number (8):4520019US Reference Group (8):4520019 19850500 Ribi et al. 424/195.1